

ABSTRACT OF THE DISCLOSURE

A measurement apparatus has a first detector for measuring an intensity such that a sheet-shaped beam of  
5 synchrotron radiation is integrated over the entire range of the beam in the thickness direction thereof; a second detector for measuring the intensity of the beam at two points where positions along the direction are different; and a calculating device for calculating the magnitude of  
10 the beam in the direction on the basis of the detections by the first and second detectors.